

Title (en)

SUBSTRATE FOR SELECTING AND SPECIFICALLY INFLUENCING THE FUNCTION OF CELLS

Title (de)

SUBSTRATE ZUR SELEKTION UND SPEZIFISCHEN BEEINFLUSSUNG DER FUNKTION VON ZELLEN

Title (fr)

SUBSTRATS PERMETTANT DE SÉLECTIONNER ET D'INFLUENCER SPÉCIFIQUEMENT LE FONCTIONNEMENT DE CELLULES

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2010075933A1] The invention relates to a method and to a substrate for selecting and specifically influencing the function of cells by the adhesion thereof to substrate surfaces having prescribed properties. Said substrates comprise various surface regions each representing a condition affecting the cell adhesion and/or cell function, and said conditions are determined by a geometric property and/or a mechanical property or a combination of a geometric property and/or a mechanical property with a chemical property of each surface region. The invention further relates to analysis devices and to analysis methods using said substrates for identifying and selecting particular cell types, for identifying suitable substrate conditions for affecting a particular cell function or particular cell type or for identifying disease states characterized by a change in the cell type or cell function.

IPC 8 full level

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ARNOLD M ET AL: "Induction of cell polarization and migration by a gradient of nanoscale variations in adhesive ligand spacing", NANO LETTERS, AMERICAN CHEMICAL SOCIETY, US, vol. 8, no. 7, 9 July 2008 (2008-07-09), pages 2063 - 2069, XP002576946, ISSN: 1530-6984, [retrieved on 20080618], DOI: 10.1021/NL801483W

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